

ABSTRACT

A dual polarized three-sector base station
5 antenna with variable beam tilt in each sector. The
invention advantageously provides a variable phase
shifter with very small lateral dimensions which
significantly reduces the diameter of a three-sector
antenna. The feed network is located on both sides of
10 the antenna ground plane, and the combination of the
cable, microstrip and airstrip lines further reduces
the lateral size of the antenna. Metal rings on the
radome and double-bended ground plane are providing
antenna with better cross-polarization and port-to-
15 port isolation.